

Prepare for Exam 2 by reviewing the following questions. Five of these questions will be found on the exam, of which three must be answered for credit.

1. Compare and contrast cell respiration and photosynthesis.
2. Compare and contrast mitochondria and chloroplasts.
3. What are the three main ways that ADP is phosphorylated to become ATP and how does each operate?
4. Sketch the electron transport chain in the mitochondrion or chloroplast; indicate how electrons flow and include important molecules involved with electron flow.
5. Explain the function of fermentation as it relates to anaerobic exergonic metabolic processes.
6. Compare and contrast prokaryotic and eukaryotic cells.
7. State the most important organelle. Support your selection.
8. Evaluate the following statement and either provide support for it or argue against it: Ancestral eukaryotic cells must have been able to perform endocytosis and exocytosis.